	Application No.	Applicant(s)	<u> </u>
Notice of Allowability	10/628,744	SUENAGA, YUTAKA	
	Examin r	Art Unit	
	Alan A. Mathews	2851	
The MAILING DATE f this communication a All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL- NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.	IS (OR REMAINS) CLOSED in 85) or other appropriate communication is selection in Selection is selection in Se	this application. If not include in due	ded
1. This communication is responsive to <u>communication file</u>	<u>ed 2-9-2004</u> .	•	
2. The allowed claim(s) is/are <u>1-8 and 10-140</u> .			
3. The drawings filed on 30 July 2003 are accepted by the			
4. ☑ Acknowledgment is made of a claim for foreign priority a) ☑ All b) ☐ Some* c) ☐ None of the:		r (f).	•
1. Certified copies of the priority documents h	•		
2. Certified copies of the priority documents h			
3. Copies of the certified copies of the priority	documents have been received	in this national stage applica	ation from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:	•		•
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDO THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	E" of this communication to file a NMENT of this application.	a reply complying with the re	quirements
5. A SUBSTITUTE OATH OR DECLARATION must be sul INFORMAL PATENT APPLICATION (PTO-152) which g	omitted. Note the attached EXAI lives reason(s) why the oath or o	MINER'S AMENDMENT or Neclaration is deficient.	NOTICE OF
 6. CORRECTED DRAWINGS (as "replacement sheets") in (a) including changes required by the Notice of Draftspot 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examine Paper No./Mail Date 	erson's Patent Drawing Review —		
Identifying indicia such as the application number (see 37 CFF each sheet. Replacement sheet(s) should be labeled as such in	R 1.84(c)) should be written on the n the header according to 37 CFR	drawings in the front (not the	e back) of
7. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN	posit of BIOLOGICAL MATER	RIAL must be submitted. I	Note the
A44:1	·		
Attachment(s) 1. Notice of References Cited (PTO-892)	5. Notice of Info	imal Detail Augusta de 1974	0.45 <u>0</u> \
2. Notice of Draftperson's Patent Drawing Review (PTO-948) 6. Interview Sun	rmal Patent Application (PTC	J-152)
3. Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date 2/04	Paper No./M	ail Date mendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🕅 Examiner's Si	tatement of Reasons for Allo	Wianco
of Biological Material	9. Other		1
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EXAMINER'S COMMENT

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on February 9, 2004, has been entered.

REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance:

The prior art of record does not disclose or suggest an image side numerical aperture that is greater or equal to 0.75, and a distance D in mm along an optical axis between an optical surface closest to the second object, and the second object, satisfies a condition of 0.1 < D < 5, and five optical groups having powers (negative, positive, negative, positive, positive), in combination with all the other elements recited in independent claim 1.

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optical surface closest to the second object, and the second object, satisfies a condition of 0.1 < D < 5, and five optical groups having powers (negative, positive, negative, positive, positive), and a flow device between the optical surface closest to the second surface and the substrate, and which forms a predetermined flow of fluid in the optical path between the optical surface closest to the second surface and the photosensitive substrate in combination with all the other elements recited in independent claim 75.

The prior art of record does not disclose or suggest an exposure method wherein the image side numerical aperture that is greater or equal to 0.75, and a distance D in mm along an optical axis between an optical surface closest to the second object, and the second object, satisfies a condition of 0.1 < D < 5, and five lens groups having powers (negative, positive, negative, positive, positive), and including the step of flow formation of forming a predetermined flow of fluid in an optimal path between the optical surface closest to the second surface and the photosensitive substrate combination with all the other steps recited in independent claim 90.

The prior art of record does not disclose or suggest five lens groups having powers (negative, positive, negative, positive, positive), and wherein the optical path between the fifth lens group and the second surface is filled with a liquid, and wherein a diameter of light beam which passes the projection optical system is a relative maximum in a region between the fourth lens group and the fifth lens groups in combination with all the other elements recited in independent claim 105.

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3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alan A. Mathews whose telephone number is (571) 272-2123. The examiner can normally be reached on Monday through Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on (571) 272-2180. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alan A Mathavia

Alan A. Mathews Primary Examiner Art Unit 2851